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81 Performance evaluation of multiple time scale TCP under self-similar traffic conditions

Kihong Park, Tsunyi Tuan

April 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 10 Issue 2

Publisher: ACM Press

Full text available: pdf(264.71 KB) Additional Information: full citation, abstract, references, index terms

Measurements of network traffic have shown that self-similarity is a ubiquitous phenomenon spanning across diverse network environments. In previous work, we have explored the feasibility of exploiting long-range correlation structure in self-similar traffic for congestion control. We have advanced the framework of multiple time scale congestion control and shown its effectiveness at enhancing performance for rate-based feedback control. In this article, we extend the multiple time scale co ...

Keywords: TCP, congestion control, multiple time scale, network protocols, performance evaluation, self-similar traffic, simulation

82 Virtual fault simulation of distributed IP-based designs

Marcello Dalpasso, Alessandro Bogliolo, Luca Benini, Michele Favalli

January 2000 **Proceedings of the conference on Design, automation and test in Europe**

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John F. Affeldt

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84 "Personnel forecasting strategic workforce planning": a proposed simulation cost modeling methodology
Stephen R. Parker, John A. Marriott
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 2**
Publisher: ACM Press
Full text available: pdf(121.44 KB) Additional Information: full citation, references, index terms

85 Transporting compressed video over ATM networks with explicit-rate feedback control
T. V. Lakshman, P. P. Mishra, K. K. Ramakrishnan
October 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 5
Publisher: IEEE Press
Full text available: pdf(232.17 KB) Additional Information: full citation, references, citings, index terms

Keywords: ATM, congestion control, packet video

86 Scalable feedback for large groups
Jörg Nonnenmacher, Ernst W. Biersack
June 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 3
Publisher: IEEE Press
Full text available: pdf(275.33 KB) Additional Information: full citation, references, citings, index terms

Keywords: extreme value theory, feedback, multicast, performance evaluation, reliable multicast

87 Military simulation worlds and organizational learning
Michael D. Proctor, Justin C. Gubler
December 1998 **Proceedings of the 30th conference on Winter simulation**
Publisher: IEEE Computer Society Press
Full text available: pdf(65.33 KB) Additional Information: full citation, references, index terms

88 A decision feedback decorrelator for a dual rate synchronous DS/CDMA system
Mohammad Saquib, Roy Yates, Narayan Mandayam
November 1998 **Wireless Networks**, Volume 4 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: pdf(201.58 KB) Additional Information: full citation, abstract, references, index terms

A dual rate synchronous DS/CDMA system provides service to low bit rate and high bit rate users. In a fixed duration interval, a low rate user transmits one bit while a high rate user transmits M bits. The differences in the bit transmission rates result in different processing gains for each class of user. In this paper, we propose a decision feedback decorrelator for the dual rate synchronous DS/CDMA system which uses modified correlators and initiates the bit decision pr ...

89 Interacting through different modalities: Visual display, pointing, and natural

language: the power of multimodal interaction
Antonella De Angeli, Walter Gerbino, Giulia Cassano, Daniela Petrelli
May 1998 **Proceedings of the working conference on Advanced visual interfaces**
Publisher: ACM Press
Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references

This paper examines user behavior during multimodal human-computer interaction (HCI). It discusses how pointing, natural language, and graphical layout should be integrated to enhance the usability of multimodal systems. Two experiments were run to study simulated systems capable of understanding written natural language and mouse-supported pointing gestures. Results allowed to: (a) develop a taxonomy of communication acts aimed at identifying targets; (b) determine the conditions under which sp ...

Keywords: cross-modal integration, referent identification strategies

90 Informing memory operations: memory performance feedback mechanisms and their applications
Mark Horowitz, Margaret Martonosi, Todd C. Mowry, Michael D. Smith
May 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 2
Publisher: ACM Press
Full text available: pdf(344.74 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Memory latency is an important bottleneck in system performance that cannot be adequately solved by hardware alone. Several promising software techniques have been shown to address this problem successfully in specific situations. However, the generality of these software approaches has been limited because current architecturtes do not provide a fine-grained, low-overhead mechanism for observing and reacting to memory behavior directly. To fill this need, this article proposes a new class ...

Keywords: cache miss notification, memory latency, processor architecture

91 Parallel VHDL simulation
E. Naroska
February 1998 **Proceedings of the conference on Design, automation and test in Europe**
Publisher: IEEE Computer Society
Full text available: pdf(203.26 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

In this paper we evaluate parallel VHDL simulation based on conservative parallel discrete event simulation (conservative PDES) algorithms. We focus on a conservative simulation algorithm based on critical and external distances. This algorithm exploits the interconnection structure within the simulation model to increase parallelism. Further, a general method is introduced to automatically transform a VHDL model into a PDES model. Additionally, we suggest a method to further optimize parallel s ...

Keywords: Conservative Parallel VHDL simulation, parallel discrete event simulation, PDES

92 Computer graphics in medicine: from visualization to surgery simulation
Markus H. Gross

February 1998 **ACM SIGGRAPH Computer Graphics**, Volume 32 Issue 1
Publisher: ACM Press
Full text available: pdf(2.15 MB) Additional Information: full citation, abstract, citings, index terms

Medicine is an extremely challenging field of research, which has been -- more than any other discipline -- of fundamental importance in human existence. The variety and inherent complexity of unsolved problems has made it a major driving force for many natural and engineering sciences. Hence, from the early days of computer graphics the medical field has been one of most important application areas with an enduring provision of exciting research challenges. Conversely, individual graphics tools ...

93 Continuous simulation of air base assets (CSAA)—"integrating logistics support operations"—a proposed methodology

Stephen R. Parker, Patrick Williams
December 1997 **Proceedings of the 29th conference on Winter simulation**
Publisher: ACM Press
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94 A performance monitoring application for distributed interactive simulations (DIS)

David B. Cavitt, C. Michael Overstreet, Kurt J. Maly
December 1997 **Proceedings of the 29th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(922.38 KB) Additional Information: full citation, references, index terms

95 Forecasting investment opportunities through dynamic simulation

Stephen R. Parker
December 1997 **Proceedings of the 29th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(694.12 KB) Additional Information: full citation, references, citings, index terms

96 GOLDENGATE: a fast and accurate bridging fault simulator under a hybrid logic/IDDQ testing environment

Tzuhao Chen, Ibrahim N. Hajj
November 1997 **Proceedings of the 1997 IEEE/ACM international conference on Computer-aided design**
Publisher: IEEE Computer Society
Full text available: pdf(169.23 KB) Publisher Site Additional Information: full citation, abstract, references, index terms

In this paper we describe GOLDENGATE-a bridging fault simulator for cell-based digital VLSI circuits with the following features: 1. It targets both combinational and sequential circuits. 2. It simulates general (routing, adjacency, and intra-cell) realistic bridging faults efficiently through a table-based scheme. The pre-computed table contains accurate cell output voltage and I/sub DDQ/ values obtained through electrical-level simulations. 3. It simulates both feedback and nonfeedback bridgin ...

Keywords: GOLDENGATE, bridging fault simulator, combinational circuits, digital VLSI circuits, electrical-level simulation, event-driven technique, logic testing, logic/I/sub DDQ/ testing, sequential circuits

97 Performance of ARQ Go-Back-N protocol in Markov channels with unreliable feedback

Michele Zorzi, Ramesh R. Rao
October 1997 **Mobile Networks and Applications**, Volume 2 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(346.24 KB) Additional Information: full citation, abstract, references, index terms

In this paper, an ARQ Go-Back-N protocol with time-out mechanism is studied. Transmissions on both the forward and the reverse channels are assumed to be subject to Markovian errors. A recently developed approach, based on renewal theory, is further extended and the steady state average number of packets in the ARQ system is evaluated. This allows us to determine analytically both throughput and transmission delay of the system. Simulation results, that confirm the analysis, are also presen ...

98 Adaptive feedback compensation for distributed load-based routing systems in datagram packet-switched communications networks

Arthur S. Olsen
July 1997 **ACM SIGCOMM Computer Communication Review**, Volume 27 Issue 3
Publisher: ACM Press
Full text available: pdf(2.60 MB) Additional Information: full citation, abstract, index terms

Routing systems for datagram packet-switched networks' iteratively applying Shortest Path First (SPF) algorithms on load-based link cost metrics exhibit poor stabilization and convergence properties at moderate traffic loads without the addition of experimentally determined Bertsekas Additive Bias Factors to aid in damping undesirable oscillations. Routing systems which iteratively apply SPF Algorithms on load-varying link costs implicitly assume routing assignments can be independently modified ...

99 The potential and actual effectiveness of interactive query expansion

Mark Magennis, Cornelis J. van Rijsbergen
July 1997 **ACM SIGIR Forum , Proceedings of the 20th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '97**, Volume 31 Issue SI
Publisher: ACM Press
Full text available: pdf(1.23 MB) Additional Information: full citation, references, citings, index terms

100 A multidimensional study on the feasibility of parallel switch-level circuit simulation

Yu-an Chen, Vikas Jha, Rajive Bagrodia
June 1997 **ACM SIGSIM Simulation Digest , Proceedings of the eleventh workshop on Parallel and distributed simulation PADS '97**, Volume 27 Issue 1
Publisher: IEEE Computer Society, ACM Press
Full text available: pdf(1.19 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

This paper presents the results of an experimental study to evaluate the effectiveness of multiple synchronization protocols and partitioning algorithms in reducing the execution time of switch-level models of VLSI circuits. Specific contributions of this paper include: (i) parallelizing an existing switch-level simulator such that the model can be executed using conservative and optimistic simulation protocols with minor changes, (ii) evaluating effectiveness of several partitioning algorithms ...

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